San Francisco Baykeeper Toxicity Monitoring Project
Applicant: Baykeeper
CALFED Project Number:97-N09

Budget year: 1998
Statement Quarter: 1

Total Estimated Cost of Phase I: $100,000
Funding from Federal Bay-Delta Account 100,000
Funding provided by Baykeeper
(In-kind Services would be listed here if applicable- note: Detail of the service provide would be included.)
To date this project has utilized numerous hours of in-kind service which we will report with next report.
Phase I schedule 1 year
Phase II schedule - None -
Total Project Estimated Completion Date: 1 year

	PHASE I (Quarterly Budget)				PHASE I (FY '98 Budget)			PHASE I (Three Year Budget)		
	Budget	Accrued Expenditures	Variance **		Budget	Accrued Expenditures	Remaining Balance	Budget	Accrued Expenditures	Balance to Complete
Task 1: Project Management	$0	$0	$0	1	$0	$0	$0	$11,477	$3,650	$7,827
Schedule: FY '98 through FY '98										
Percent Work Complete for Task 1: 30%										
Task 2: QA/QC Plan	$0	$0	$0	2	$0	$0	$0	$2,318	$2,318	$0
Schedule: FY '98 through FY '98										
Percent Work Complete for Task 2: 98%										
Task 3: QA/QC Training manual	$0	$0	$0		$0	$0	$0	$2,700	$2,342	$358
Schedule: FY '98 through FY '98										
Percent Work Complete for Task 3: 85%										
Task 4: Site Evaluation	$0	$0	$0		$0	$0	$0	$4,183	$4,163	$20
Schedule: FY '98 through FY '98										
Percent Work Complete for Task 4: 95%										
Task 5: Monitoring Plan	$0	$0	$0		$0	$0	$0	$2,814	$2,814	$0
Schedule: FY '98 through FY '98										
Percent Work Complete for Task 5: 100%										
Task 6: Volunteer Recruiting	$0	$0	$0		$0	$0	$0	$4,207	$3,468	$739
Schedule: FY '98 through FY '98										
Percent Work Complete for Task 6: 82%										
Task 7: Volunteer Training	$0	$0	$0		$0	$0	$0	$8,600	$4,576	$4,024
Schedule: FY '98 through FY '98										
Percent Work Complete for Task 7 50%										
Task 8: Acquire Supplies	$0	$0	$0		$0	$0	$0	$1,454	$1,264	$190
Schedule: FY '98 through FY '98										
Percent Work Complete for Task 8: 90%										
Task 9: Monitoring and Analysis	$0	$0	$0		$0	$0	$0	$53,665	$7,181	$46,484
Schedule: FY '98 through FY '98										
Percent Work Complete for Task 9: 20%										
Task 10: Draft Report	$0	$0	$0		$0	$0	$0	$6,042	$166	$5,876
Schedule: FY '98 through FY '98										
Percent Work Complete for Task 10: 0%										
Task 11: Final Report	$0	$0	$0		$0	$0	$0	$2,542	$166	$2,376
Schedule: FY '98 through FY '98										
Percent Work Complete for Task 11: 0%										
Phase I Total:	$0	$0	$0		$0	$0	$0	$100,000	$32,106	$67,894

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QUARTERLY NARRATIVE REPORT
DELTA TOXICITY MONITORING STUDY
January 11, 1999

BayKeeper and DeltaKeeper have mounted their vital toxicity monitoring study in the San Francisco Bay Delta and completed an initial design and setup phase, as well as the recruitment and training of volunteers and staff engaged in the project. Key planning has also been completed, including the project Monitoring Plan and the Quality Assurance/Quality Control Plan (QA/QC Plan). As of October 1998, DeltaKeeper has also begun its first sampling activities, including additional first-flush sampling from winter rainstorms (this sampling activity is complementary to activities taking place under the Toxicity Monitoring Program, providing additional useful data on runoff levels from pesticides and other contaminants during the first storms of the year).

In late 1997, the David B. Gold Foundation approved a grant of $50,000 for the DeltaKeeper which has provided initial planning and setup funds while we awaited completion of the CalFed contracts. The Toxicity Monitoring study will provide vital baseline data as a first highly-important step toward gathering information on toxicity levels already known to be high in the Delta. The study will also provide information on toxicants, impacts and sources which will be detailed more fully in second-phase studies. This data will be invaluable in much of DeltaKeeper's work, as well as to scientists and agencies working to restore the health of the Bay and Delta.

DeltaKeeper and BayKeeper have now established a strong planning and organizational basis for the Toxicity Monitoring Project, and completed initial setup and training of volunteers. This project, focussed on the gathering of high-quality scientific data to fill a major gap in environmental knowledge in the Delta San Joaquin region, is quite a new undertaking for our small nonprofit organization, but we feel we have now laid the groundwork for high-quality results.

DeltaKeeper has assembled a core group of key advisors, including instructors at Delta College, U.C. Davis, and University of the Pacific, as well as local agency scientists, including advisors from the Regional Water Quality Control Board who have conducted prior related studies in this region and elsewhere. Among those assisting with this project are Dr. Gary Litton at University of the Pacific, Terry Strange from Delta College, Dr. Dale Saunders from University of the Pacific, and staff at the U.C. Davis Aquatic Toxicology Laboratory, including Dr. David Hinton, a widely-recognized expert in his field, as well as local agency staff from a number of water, fish and wildlife agencies. A new addition to this group is long-time BayKeeper advisor, Dr. Susan Kegley, formerly a lecturer at U.C. Berkeley and now a staff scientist for the Pesticide Action Network, who is joining the Delta advisory team. A number of experts from this group have participated in developing the monitoring plan, including initial mapping of sites and procedures to be used. In addition, they have provided invaluable assistance in developing and testing QA/QC procedures and advising on drafting of the QA/QC plan. Advisors have also provided advice on a draft QA/QC procedures manual designed to be used by monitoring volunteers in other monitoring projects and have assisted in several key training sessions for volunteers.

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The Delta Toxicity Monitoring Plan, outlined by DeltaKeeper with assistance from the U.C. Davis Aquatic Toxicology Laboratory staff, designates 12 river and back slough sites which are to be tested for toxicity, the frequency of testing, procedures to be used, and the types of discharges that will be evaluated. The plan also includes detail on U. C. Davis Laboratory testing functions, including testing for acute and chronic toxicity, chemical analyses, and Toxicity Identification Evaluations, with sources and causes of toxicity to be reported to DeltaKeeper. Other information in the plan outlines QA/QC processes, data management considerations and a timeline for completion of sampling, data analysis and reporting. Numerous site visits were conducted in the course of developing the monitoring plan in order to assess the value of proposed sites, logistical problems in collecting samples and other factors which might impact data collection and transport once the full study was up and running.

After extensive research and consultation, a Toxicity Monitoring Quality Assurance/Quality Control Plan has also be developed which outlines all of the procedures to be used to ensure high quality volunteer management, sample collection, transport and other factors. It has been reviewed by the U.S. EPA and found to meet all general standards in order for the data to meet EPA's needs. In addition, a QA/QC Plan for student and citizen volunteer monitoring is being developed for use in DeltaKeeper's Stockton Urban Waterways project and a companion project being done with Placer County on the Calaveras River. (When completed, the Placer version of this manual will also be made available to others in that watershed for use in their monitoring programs).

At least five volunteer training sessions have been conducted, including a credit course at Delta College conducted by Terry Strange. Additional courses have been conducted at the DeltaKeeper offices, and have featured talks by Fish and Wildlife and USGS scientists, as well as training in hands-on monitoring techniques and use of scientific instruments. During the summer, U.C. Davis Aquatic Toxicology Laboratory staff also conducted volunteer training sessions.

Core volunteers who have established a high level of professional dependability are now working with staff to conduct the first sampling pulls for the Delta Toxicity Monitoring Study.

Sampling is set up in two parts with general pulls being taken from all sites at once and smaller, varied sampling being done at sites on a month to month basis. Initial sampling has now been conducted at Vernallis, Prospect Slough and Paradise Cut. A major sampling event took place at Prospect Slough with U.C. Davis Aquatic Toxicology Laboratory staff present to participate in sampling activities. Paradise Cut showed acute toxicity in initial samples, a result that was not anticipated in dry weather. A number of small sampling events engaging approximately 10 people will take place during November and a major sampling event is scheduled for December 1998. The larger sampling events are set up with 20 people divided up into three teams, each headed by a DeltaKeeper staff member. In some cases, samples are taken from the DeltaKeeper boat and in sloughs, the DeltaKeeper inflatables come in handy for getting samples.

Sampling continues to be conducted on the schedule layed out in the monitoring plan, with continual assistance from advisors and staff of the U.C. Davis Aquatic Toxicology Laboratory. The first Data Report has now been submitted by U.C. Davis, and is being sent to NFWF for your

files. We are also sending copies of the most recent QA/QC Plan, and the Monitoring Plan.

We expect a large portion of the work on Task #9 to be conducted in the next three months.

Projected expenses are approximately as follows for the next quarter:

Month #1 $ 5,000 Month #2 $15,000 Month #3 $15,000. Total for the Quarter: $35,000.

* expenses will be dependent in part upon how soon billing arrives from U.C. Davis for its analytical work.